



BD/E^gy P REVIEW COMPLETED

WORK PERMIT AND NOTIFICATION FORM (Follow Instructions below)

Building Name or Sight Location: Tevatron Tunnel@C-0& C-0 Hall FIMS #: 701030 Project # Job Description: Reconfigure Beam Line @ C-0 Tevatron Division/Section Supervising Work: Beams Division Description: Landlord Division/Section: Beams Division	
Division/Section Supervising Work. Beams Division	
Division/Section Supervising Work: Beams Division	
	ision
Task Manager/ConstructionCoordinator, Delmar F. Miller Jr. Phone #: x2154 Pages #: 0804	
Subcontractor: TAFT CONTRACTING, INC. Phone #: 708-656-75	
Est. Starting Date: 01-13-03 Est. Completion Date: 1-24-02	
Systems Affected / Notification Required: (Check all that apply-Follow notification list on back)	
Oyes @ no Any Utility System (e.g.,Gas,CW,ICW,DWS,LCW,Sanitary Sewer)	
Oyes @ no Electrical System	
Oyes @ no HVAC	
Oyes @ no Fire Protection System	
Oyes @ no Tele-Communication	
Oyes @ no Data Communication System	
Oyes ⊚no FIRUS System	
Oyes @ no Roof Systems	
Oves @ no Parking Lot, Hardstand, Road or Turf	
es ⊚no Other (Specify):no	
Permits Required: (Check all that apply)	
O yes O no Weiding, Cutting, Brazing (Farm) Fire Dept.) Iraining Required: (Answer All)	
Oyes @ no Fire Protection System Disablement (FESS) @ yes O no Oxygen Deficiency Hazard	(ODH)
Oyes @ no Confined Space Entry (ES&H manual 5063)	
Oyes @ no Electrical Hazard Analysis/Work Parmit	
(FESHM 5042) () Ves (0) no Confined Space	
Oyes @ no Potable Water Permit (ES&H Manual 8050) Oyes @ no Respiratory Protection	
Oyes @ no Radiological Work Permit (landlord Div/Sect. RSO)	
Oyes @ no Excavation Permit (FESHM 7030) Oyes @ no Other (specify)no	
Oyes @ no Environmental Permits Oyes @ no Other (specify)no	
Santary Sewers (ES&H Manual 8025)	
Oyes @ no Other (Specify):no	
Special Precautionary Note: See Hazard Analysis & Task Schedule * There appears To 6	í no
110 11cta 10 CUT. aprint, an human madis-time.	Toes
- 477361 NAM JAKETU MUST HE CONTACT & MAINE - TACT A MILLION	
Signatures ODA BARRACAS to BE RE-ESTAPLISHED AT END OF DUS RUL	
Task Manager/Construction Coordinator:	
Building Manager: Lengton X Clin Date: 12/5/02	
112	
Landlord Div/Sec SSO: 12/5/02 M. Serard: ** Date: 12/5/02	
M. S. L. 12/5/02	

Project Haz	ard Analysis	Form	
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This form is to be completed by the construction subcontractor or Fermilab Task Manager for acceptance prior to the Notice to Proceed. In addition, this form is to be maintained at the site where the work is being performed. This is a dynamic document which requires modifications as the project moves from start to finish.

Subcon	<u>itractor</u>	<u>Fermilal</u>	2
company roject Manag	TAFT CONTRACTING, INC.	Project Manager	x3693 Pgr. 0836 Delmar F. Miller Jr.
age uperintende	nt	TM/CC Phone Page	x2154 or x2187 0804
hone age S&H Rep.	708-656-7500	ES&H Rep. Phone Page	Dave Cathey 840-8362 218-3445
hone		Other	
	pted Dand 15. Oliver		

C-0 Beam Line Reconfiguration Job Title

Utilizing the format below, identify hazards and safety precautions/procedures to nitigate hazards. Use as many sheets a necessary.

Phase of Work	Safety Hazard	Precaution/Safety Procedures
C-0 Beam Line Reconfiguration	General Safety Notes	All contractors must have completed . Contractor Orientation, GERT,ODH &
		Rad Worker Training. Proper work attire, hard hat, steel toe shoes, eye protection and gloves must be worn at all times by everyone involved. Any activity that involves welding, brazing, air arcing, torch cutting or similar activities requires that the Task Manager first secure a
		Weld/Burn Permit from the FNAI. Fire Dept. Be certain that all hand and power tools are in good repair, and the individuals that use them are properly trained and competent. All injuries, no matter how minor they may appear to be will be immediately reported to the Task Manager and the FNAL Medical Dept.
Move Shielding Door Into C-0 Hall Using FNAL Supplied Moving Apparatus.	Dropping and/or losing control of load. Pinched or smashed fingers, toes or other related injuries. Being crushed between load and other objects or structures.	Be certain all hydraulic equipment and transport rollers are in proper working order and rated to safely handle the load. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Do not place your body between the load and any structures or other objects.
Move Upstream Lambertson Magnet Into Aisle. Note: Repeat This Operation For The Two Remaining Lambertson Magnets.	Dropping and/or losing control of load. Pinched or smashed fingers, toes or other related injuries. Being crushed between load and other objects or structures.	Follow established Beams Division practices/procedures. Be certain all hydraulic equipment and transport rollers are in proper working order and rated to safely handle the load. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Do not place your body between the load and any structures or other objects.

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Place Lambertson Magnet Onto Magnet Mover & Transport To Pesignated MVA. Note: Repeat This Operation For The Two Remaining Lambertson

Magnets.

Dropping and/or losing control of load. Pinched or smashed fingers, toes or other related injuries. Being crushed between load, Magnet Mover and/or other objects or structures.

Follow established Beams Division practices/procedures. Magnet Mover is only to be operated by a qualified Beams Division employee. During transport operations the Magnet Mover operator is to be accompanied by a competent escort/spotter. Be certain all lifting devices are in proper working order and rated to safely handle the load. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Do not place your body between/under the load and/or Magnet Mover and any structures or other objects.

Remove Lambertson Magnet From Magnet Mover In MVA Note: Repeat This Operation For The Two Remaining Lambertson Magnets.

Dropping and/or losing control of load. Pinched or smashed fingers, toes or other related injuries. Being crushed between/under the load, Magnet Mover and/or other objects or structures.

Be certain all overhead hoist operators are trained and competent. Use approved rigging practices. Make certain overhead hoist and all below the hook lifting devices are rated to safely handle the load and are in good condition. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Do not place your body between/under the load and/or Magnet Mover or other structures and objects.

Lower Fork Lift Trucks Into MVA.

Dropping and/or losing control of load. Pinched or smashed fingers, toes or other related injuries. Being crushed between/under the load, and/or other objects or structures.

Be certain all overhead hoist operators are trained and competent. Use approved rigging practices. Make certain overhead hoist and all below the hook lifting devices are rated to safely handle the load and are in good condition. Do not place hands or other parts of your body into any area that could result in a pinch or

Ensure that catalysts are in place on exhaust & CO (carbon monoxide) monitors are in place.

Page

Basic Safety Rules: ESH Admin Form #17 8/98

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Utilizing the format below, identify hazards and safety precautions/procedures to mitigate hazards. Use as many sheets a necessary.

Phase of Work	Safety Hazard	Precaution/Safety Procedures
Remove Steel Plate From Deck.	Falling from an elevated work area. Pinched or smashed fingers toes or other related injuries. Dropping or losing control of the load.	Use approved approved fall protection devices. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Be certain that all lifting equipment is rated to safely handle the load and all operators of the lifting equipment are trained and competent.
Install TAB Support Bracket.	Falling from an elevated work area. Pinched or smashed fingers toes or other related injuries. Dropping or losing control of the load.	Use approved approved fall protection devices. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Be certain that all lifting equipment is rated to safely handle the load and all operators of the lifting equipment are trained and competent.
Remove Decking Support Beams And Stands From Tunnel And Hall.	Falling from an elevated work area. Pinched or smashed fingers toes or other related injuries. Dropping or losing control of the load.	Use approved approved fall protection devices. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Be certain that all lifting equipment is rated to safely handle the load and all operators of the lifting equipment are trained and competent.
Install Steel Shim On Tevatron Lower Floor.	Falling from an elevated work area. Pinched or smashed fingers toes or other related injuries. Dropping or losing control of the load.	Use approved approved fall protection devices. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Be certain that all lifting equipment is rated to safely handle the load and all operators of the lifting equipment are trained and competent.
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'Lower "K" & "C" Blocks Into Hall.

Dropping or losing control of load. Pinched or smashed fingers toes or other related injuries. Being crushed between/under the load and other objects or structures.

Be certain all overhead hoist operators are trained and competent. Use approved rigging practices. Make certain overhead hoist and all below the hook lifting devices are rated to safely handle the and are in good condition. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Do not place your body under the load.

Install "K" Blocks On Tevatron Lower Floor.

Falling from an elevated work area. Dropping or losing control of load. Pinched or smashed fingers toes or other related injuries. Being crushed between the load and other objects or structures.

Use approved approved fall protection devices. Be certain all lifting equipment is rated to safely handle the load and all operators of the lifting equipment are trained and competent. Use approved rigging practices. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Do not place your body between the load and other structures or objects.

Remove Kicker Magnets And Transport To Designated MVA. Falling from an elevated work area. Dropping or losing control of load. Pinched or smashed fingers toes or other related injuries. Being crushed between the load and other objects or structures.

Use approved approved fall protection devices. Be certain all lifting and transport equipment is rated to safely handle the load and all operators of the lifting and transport equipment are trained and competent. Use approved rigging practices. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Do not place your body between the load and other structures or objects.

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Utilizing the format below, identify hazards and safety precautions/procedures to mitigate hazards. Use as many sheets a necessary.

Phase of Work	Safety Hazard	Precaution/Safety Procedures
Stack "C" Blocks In Hall.	Falling from an elevated work area. Dropping or losing control of load. Pinched or smashed fingers toes or other related injuries. Being crushed between the load and other objects or structures.	Use approved approved fall protection devices. Be certain all lifting equipment is rated to safely handle the load and all operators of the lifting equipment are trained and competent. Use approved rigging practices. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Do not place your body between the load and other structures or objects.
Install Steel Plates On Top Of "C" And "K" Biocks	Falling from an elevated work area. Dropping or losing control of load. Pinched or smashed fingers toes or other related injuries. Being crushed between the load and other objects or structures. Burn/flash burn and fire hazard.	Use approved approved fall protection devices. Be certain all lifting equipment is rated to safely handle the load and all operators of the lifting equipment are trained and competent. Use approved rigging practices. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Do not place your body between the load and other structures or objects. Remove all combustibles from area and follow established welding procedures.
Install 400 l/s Ion Pump.	Falling from an elevated work area. Dropping or losing control of load. Pinched or smashed fingers toes or other related injuries. Being crushed between the load and other objects or structures.	Use approved approved fall protection devices. Be certain all lifting equipment is rated to safely handle the load and all operators of the lifting equipment are trained and competent. Use approved rigging practices. Do not place hands or other parts of your body into any area that could result in a pinch or crush injury. Do not place your body between the load and other structures or objects.
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Job Title C-0 Beam Line Reconfiguration Close Shielding Door Using Dropping and/or losing control of Be certain all hydraulic equipment and transport rollers are in proper working TNAL Supplied Moving load. Pinched or smashed fingers, Apparatus. toes or other related injuries. Being order and rated to safely handle the load. Do not place hands or other parts of your crushed between load and other body into any area that could result in a objects or structures. pinch or crush injury. Do not place your body between the load and any structures or other objects. Dropping and/or losing control of Be certain all overhead hoist operators are RemoveFork Lift Trucks load. Pinched or smashed fingers, trained and competent. Use approved FromMVA. toes or other related injuries. Being rigging practices. Make certain overhead crushed between/under the load, hoist and all below the hook lifting Magnet Mover and/or other objects devices are rated to safely handle the load and are in good condition. Do not place or structures. hands or other parts of your body into any area that could result in a pinch or crush injury. Do not place your body between/under the load or other structures and objects. **Basic Safety Rules:** Page 2 ESH Admin Form #17 8/98 7010TA-2 Fermilab ES&H Manual 8/98

Project Hazard Analysis Signature Sheet

Contact Number Superintendent		C-0 Beam Line Reconfiguration
ES&H Information relative to this j	ob has been reviewed with m	
Name (please print)	Signature	Date
		
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